

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
September 2001

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on May 8, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of September 2001.

Statewide precipitation was 75 percent of average for the 2000-2001 water year as of September 30. Statewide runoff was 45 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: <http://cdec.water.ca.gov/snow-rain.html>.

On September 30, total storage in major SWP reservoirs was about 2.65 MAF, compared with about 2.94 MAF at this time in 2000. The average storage in the major SWP reservoirs at the end of September is about 3.36 MAF. The September 30 storage at Lake Oroville was about 1.49 MAF as compared to 1.92 MAF last year. The State's share of San Luis Reservoir storage was about 516 TAF, as compared with 387 TAF at this time last year. On September 30, the combined storage in our southern reservoirs was about 643 TAF, compared with about 630 TAF at this time last year.

Through September, SWP water deliveries for 2001 were about 1.61 MAF. This is a combination of project, transfer, and exchange waters. This is 1.16 MAF less than delivered during the same period in 2000.

Exports were cut to boost outflow and a proposed experiment to operate the Delta Cross Channel was canceled to avoid the extra water costs which may have been incurred. Water quality continued to degrade throughout the month, and exports were restricted to maintain sufficient outflow to maintain compliance. The outflow standard for September was 3,000 cfs, but average daily outflow values typically exceeded 4,000 cfs.

SWP completed the wheeling of water for the CVP's Forbearance Water Program, which had started in July.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Aug 31	4993.17	15,199								
1	4993.10	15,147	-52	5	0	0	0			
2	4993.05	15,110	-37	5	0	0	0			
3	4993.01	15,081	-29	5	0	0	0			
4	4992.97	15,052	-29	5	0	0	0			
5	4992.92	15,015	-37	5	0	0	0			
6	4992.87	14,979	-36	5	0	0	0			
7	4992.83	14,949	-30	5	0	0	0			
8	4992.78	14,913	-36	5	0	0	0			
9	4992.74	14,884	-29	5	0	0	0			
10	4992.70	14,855	-29	5	0	0	0			
11	4992.66	14,826	-29	5	0	0	0			
12	4992.63	14,804	-22	5	0	0	0			
13	4992.60	14,782	-22	5	0	0	0			
14	4992.57	14,760	-22	5	0	0	0			
15	4992.55	14,746	-14	5	0	0	0			
16	4992.53	14,731	-15	5	0	0	0			
17	4992.51	14,717	-14	5	0	0	0			
18	4992.48	14,695	-22	5	0	0	0			
19	4992.47	14,688	-7	5	0	0	0			
20	4992.43	14,659	-29	5	0	0	0			
21	4992.39	14,630	-29	5	0	0	0			
22	4992.37	14,616	-14	5	0	0	0			
23	4992.34	14,594	-22	5	0	0	0			
24	4992.31	14,573	-21	5	0	0	0			
25	4992.31	14,573	0	5	0	0	0			
26	4992.29	14,559	-14	5	0	0	0			
27	4992.26	14,537	-22	5	0	0	0			
28	4992.23	14,516	-21	5	0	0	0			
29	4992.21	14,501	-15	5	0	0	0			
30	4992.19	14,487	-14	5	0	0	0			
Total cfs-days				150	0	0	0	230	380	
Total ac-ft			-712	298	0	0	0	456	754	
1/ Values not available on a daily basis.										

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Aug 31	5568.35	29,582								
1	5568.32	29,550	-32	0	11	0	0			
2	5568.28	29,508	-42	0	8	0	0			
3	5568.25	29,476	-32	0	7	0	0			
4	5568.22	29,444	-32	0	5	0	0			
5	5568.20	29,423	-21	0	3	0	0			
6	5568.19	29,412	-11	0	3	0	0			
7	5568.16	29,380	-32	0	3	0	0			
8	5568.16	29,380	0	0	3	0	0			
9	5568.14	29,359	-21	0	3	0	0			
10	5568.12	29,338	-21	0	3	0	0			
11	5568.10	29,317	-21	0	3	0	0			
12	5568.08	29,296	-21	0	3	0	0			
13	5568.06	29,274	-22	0	3	0	0			
14	5568.04	29,253	-21	0	4	0	0			
15	5568.01	29,221	-32	0	4	0	0			
16	5568.00	29,211	-10	0	4	0	0			
17	5567.97	29,179	-32	1	2	0	0			
18	5567.95	29,158	-21	2	1	0	0			
19	5567.92	29,126	-32	2	1	0	0			
20	5567.92	29,136	10	2	1	0	0			
21	5567.90	29,105	-31	2	4	0	0			
22	5567.87	29,074	-31	2	6	0	0			
23	5567.83	29,032	-42	2	6	0	0			
24	5567.80	29,000	-32	2	3	0	0			
25	5567.80	29,000	0	2	1	0	0			
26	5567.79	28,990	-10	2	1	0	0			
27	5567.76	28,958	-32	2	1	0	0			
28	5567.76	28,958	0	2	1	0	0			
29	5567.74	28,937	-21	2	1	0	0			
30	5567.72	28,916	-21	2	1	0	0			
Total cfs-days				27	100	0	0	256	383	47
Total ac-ft			-666	54	198	0	0	507	759	93

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	5764.36	47,397									
1	5764.33	47,310	-87	10	0	0.3	0				
2	5764.29	47,193	-117	10	0	0.3	0				
3	5764.28	47,164	-29	10	0	0.3	0				
4	5764.23	47,019	-145	10	0	0.3	0				
5	5764.20	46,932	-87	5	0	5.0	0				
6	5764.17	46,845	-87	5	0	5.0	0				
7	5764.15	46,787	-58	5	0	5.0	0				
8	5764.12	46,700	-87	5	0	5.0	0				
9	5764.09	46,613	-87	5	0	5.0	0				
10	5764.08	46,584	-29	5	0	5.0	0				
11	5764.05	46,498	-86	5	0	4.8	0				
12	5764.02	46,411	-87	6	0	4.0	0				
13	5764.00	46,354	-57	6	0	4.1	0				
14	5763.98	46,296	-58	6	0	4.1	0				
15	5763.97	46,267	-29	9	0	1.2	0				
16	5763.95	46,210	-57	10	0	0.3	0				
17	5763.93	46,152	-58	10	0	0.3	0				
18	5763.92	46,124	-28	8	0	2.0	0				
19	5763.90	46,066	-58	5	0	5.4	0				
20	5763.88	46,009	-57	5	0	4.8	0				
21	5763.86	45,951	-58	5	0	4.9	0				
22	5763.83	45,865	-86	5	0	5.2	0				
23	5763.80	45,780	-85	5	0	5.2	0				
24	5763.77	45,694	-86	5	0	5.2	0				
25	5763.78	45,723	29	8	0	2.1	0				
26	5763.75	45,637	-86	10	0	0.3	0				
27	5763.72	45,551	-86	10	0	0.3	0				
28	5763.70	45,494	-57	10	0	0.3	0				
29	5763.68	45,437	-57	10	0	0	0				
30	5763.67	45,409	-28	10	0	0	0				
Total cfs-days			- - -	218	0	86	0	726	1,030	28	
Total ac-ft			-1,988	432	0	171	0	1,440	2,044	56	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Aug 31	734.74	1,539,411								
	1	734.57	1,537,919	-1,492	1,982	34	184	0	2,200	0
	2	735.12	1,542,751	4,832	0	34	196	0	230	2,777
	3	734.81	1,540,026	-2,725	3,402	34	219	0	3,655	198
	4	733.93	1,532,310	-7,716	7,671	34	202	0	7,907	0
	5	733.22	1,526,105	-6,205	6,523	34	253	0	6,810	0
	6	732.29	1,518,003	-8,102	8,395	34	164	0	8,593	0
	7	731.39	1,510,189	-7,814	8,054	34	152	0	8,240	0
	8	731.24	1,508,889	-1,300	1,838	34	204	0	2,076	0
	9	731.45	1,510,709	1,820	52	34	175	0	261	0
	10	731.02	1,506,984	-3,725	4,547	34	140	0	4,721	0
	11	729.96	1,497,829	-9,155	10,935	34	152	0	11,121	0
	12	729.50	1,493,869	-3,960	3,813	34	128	0	3,975	0
	13	729.18	1,491,118	-2,751	3,533	34	139	0	3,706	0
	14	729.07	1,490,173	-945	3,080	34	168	0	3,282	0
	15	729.02	1,489,744	-429	1,120	34	174	0	1,328	0
	16	729.22	1,491,462	1,718	7	34	185	0	226	0
	17	729.11	1,490,517	-945	3,504	34	145	0	3,683	0
	18	729.14	1,490,774	257	3,489	34	151	0	3,674	0
	19	729.20	1,491,290	516	2,960	34	162	0	3,156	0
	20	729.09	1,490,344	-946	2,595	34	168	0	2,797	0
	21	729.04	1,489,915	-429	3,638	33	232	0	3,903	0
	22	729.37	1,492,750	2,835	1,566	33	174	0	1,773	0
	23	729.71	1,495,676	2,926	476	33	174	0	683	0
	24	729.36	1,492,665	-3,011	5,639	33	163	0	5,835	0
	25	728.96	1,489,228	-3,437	6,902	33	87	0	7,022	0
	26	728.83	1,488,113	-1,115	4,303	33	162	0	4,498	0
	27	728.40	1,484,427	-3,686	8,129	33	133	0	8,295	0
	28	728.43	1,484,684	257	3,545	33	133	0	3,711	0
	29	728.35	1,483,999	-685	4,173	33	139	0	4,345	0
	30	728.78	1,487,684	3,685	0	33	190	0	223	0
Total		-51,727	115,871	1,010	5,048	0	121,929	0	2,975	67,227

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

September 2001

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Aug 31	24,383										
1	24,934	551	1,982	475	0	439	0	9	1,263	0	-195
2	23,006	-1,928	0	256	1,861	0	0	9	1,258	2,777	-1
3	23,511	505	3,402	353	110	2,034	0	9	1,256	198	137
4	23,682	171	7,671	329	0	6,623	0	9	1,264	0	67
5	23,623	-59	6,523	371	0	5,755	0	9	1,268	0	79
6	23,841	218	8,395	347	0	7,371	0	9	1,267	0	123
7	24,715	874	8,054	393	0	6,446	0	9	1,269	0	151
8	24,927	212	1,838	495	0	840	0	9	1,275	0	3
9	24,080	-847	52	509	0	0	0	9	1,279	0	-120
10	24,019	-61	4,547	505	0	3,863	0	9	1,275	0	34
11	24,240	221	10,935	501	0	10,062	0	9	1,265	0	121
12	24,074	-166	3,813	512	0	3,256	0	9	1,251	0	25
13	24,454	380	3,533	498	0	2,438	0	9	1,234	0	30
14	23,809	-645	3,080	510	0	3,010	0	9	1,237	0	21
15	24,024	215	1,120	506	0	0	0	9	1,231	0	-171
16	22,836	-1,188	7	502	0	0	0	9	1,238	0	-450
17	24,700	1,864	3,504	0	0	631	0	9	1,244	0	244
18	24,170	-530	3,489	0	0	2,794	0	9	1,265	0	49
19	23,947	-223	2,960	0	0	1,955	0	9	1,261	0	42
20	24,088	141	2,595	0	0	1,224	0	9	1,259	0	38
21	24,999	911	3,638	0	0	1,468	0	10	1,255	0	6
22	24,288	-711	1,566	0	0	1,037	0	10	1,259	0	29
23	22,459	-1,829	476	0	0	260	1	10	1,256	0	-778
24	23,862	1,403	5,639	0	0	3,937	1	10	1,252	0	964
25	24,574	712	6,902	0	0	4,920	1	10	1,251	0	-8
26	24,269	-305	4,303	8	0	3,417	1	10	1,256	0	68
27	23,774	-495	8,129	0	0	7,457	1	10	1,251	0	95
28	23,827	53	3,545	0	0	2,303	1	10	1,250	0	72
29	24,814	987	4,173	0	0	1,955	1	10	1,247	0	27
30	23,475	-1,339	0	0	0	0	1	10	1,254	0	-74
Total		-908	115,871	7,070	1,971	85,495	8	280	37,690	2,975	628

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Aug 31	131.95	38,938										
1	130.79	34,827	-4,111	439	2,401	5	271	639	1,151	0	-83	2,414
2	128.88	28,531	-6,296	0	2,361	4	255	607	1,144	1,861	-64	2,402
3	128.07	26,041	-2,490	2,034	2,302	3	257	579	1,151	110	-122	2,407
4	128.84	28,406	2,365	6,623	2,281	3	224	534	1,151	0	-65	2,415
5	129.29	29,833	1,427	5,755	2,202	4	182	510	1,151	0	-279	2,419
6	130.25	32,987	3,154	7,371	2,122	5	141	474	1,153	0	-322	2,420
7	130.01	32,185	-802	6,446	2,064	5	131	391	1,153	0	-3,504	2,422
8	130.14	32,618	433	840	2,064	1	131	292	1,152	0	3,233	2,427
9	129.12	29,290	-3,328	0	1,984	0	129	248	1,148	0	181	2,427
10	129.21	29,577	287	3,863	1,890	0	105	214	1,164	0	-203	2,439
11	131.14	36,045	6,468	10,062	1,771	0	83	194	1,154	0	-392	2,419
12	131.15	36,080	35	3,256	1,732	0	95	194	1,154	0	-46	2,405
13	130.93	35,312	-768	2,438	1,662	0	103	190	1,151	0	-100	2,385
14	130.91	35,243	-69	3,010	1,545	0	87	192	1,142	0	-113	2,379
15	130.04	32,285	-2,958	0	1,503	0	73	190	1,146	0	-46	2,377
16	129.17	29,449	-2,836	0	1,456	0	71	192	1,151	0	34	2,389
17	128.35	26,889	-2,560	631	1,359	0	77	192	1,146	0	-417	2,390
18	128.36	26,920	31	2,794	1,196	0	87	190	1,146	0	-144	2,411
19	128.14	26,252	-668	1,955	1,174	0	71	248	1,142	0	12	2,403
20	127.59	24,616	-1,636	1,224	1,194	0	60	355	1,146	0	-105	2,405
21	127.08	23,145	-1,471	1,468	1,198	0	54	438	1,144	0	-105	2,399
22	126.42	21,305	-1,840	1,037	1,154	0	32	490	1,146	0	-55	2,405
23	125.46	18,752	-2,553	260	1,119	0	0	490	1,142	0	-62	2,398
24	125.87	19,826	1,074	3,937	1,150	0	0	522	1,152	0	-39	2,404
25	126.56	21,689	1,863	4,920	1,162	0	0	540	1,156	0	-199	2,407
26	126.71	22,104	415	3,417	1,162	0	0	573	1,156	0	-111	2,412
27	128.20	26,433	4,329	7,457	1,168	0	38	591	1,152	0	-179	2,403
28	127.97	25,741	-692	2,303	1,142	0	61	589	1,148	0	-55	2,398
29	127.58	24,587	-1,154	1,955	1,133	0	61	603	1,154	0	-158	2,401
30	126.60	21,799	-2,788	0	1,139	0	61	609	1,154	0	175	2,408
Total		-17,139		85,495	47,790	30	2,940	12,070	34,500	1,971	-3,333	72,190

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

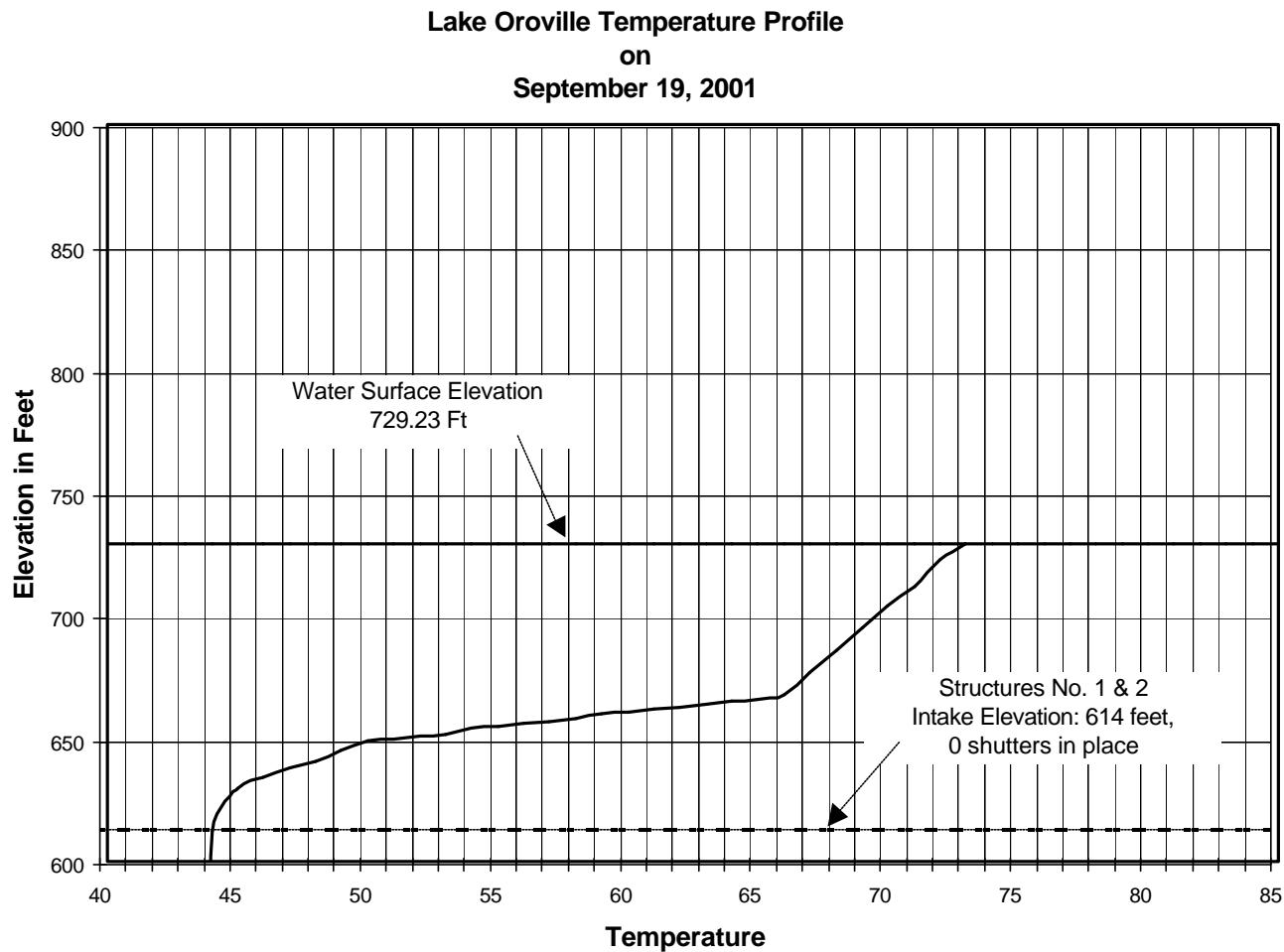
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

September 2001

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	68	53
2	69	55
3	70	55
4	71	55
5	71	53
6	71	53
7	69	52
8	69	52
9	67	53
10	66	53
11	66	53
12	65	52
13	65	53
14	64	53
15	64	54
16	64	54
17	64	54
18	66	54
19	67	53
20	68	53
21	69	53
22	69	53
23	70	53
24	69	53
25	68	53
26	69	53
27	68	54
28	68	53
29	68	54
30	68	54



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Solano Permit		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,376	430	601	368	368		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	368						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	430						
				Solano County Water Agency Fairfield / Vacaville 42"	601						
	3A		17.00	Solano County Water Agency Central Solano	Stub	734	603	606	7		
		Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,843						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	603						
				Solano County Water Agency Benicia	1,340						
3B	2	Cordelia Surge Tank	23.33			702	191	702	191		
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	7						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	702						
			27.60	Napa County Flood Control & WCD American Canyon 1	191						

Table 9. Delta Field Division Plant Data

(in acre-feet)

September 2001

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		Gravity Flow Through Plant Into Aqueduct
			Total	SWP		Into Lake	Into Aqueduct	
1	179	118	5,295	3,292	432	0	0	0
2	150	82	5,021	3,018	419	0	0	0
3	165	104	5,021	3,018	430	0	0	0
4	182	131	6,994	4,991	442	0	0	0
5	198	140	6,551	4,548	429	0	0	0
6	174	117	7,649	5,646	430	0	0	0
7	157	93	7,819	5,816	435	0	0	0
8	148	88	7,801	5,798	415	0	0	0
9	157	96	6,712	4,709	403	0	0	0
10	141	90	5,994	3,991	434	0	0	0
11	138	88	7,717	5,714	462	0	0	0
12	117	88	7,903	5,900	445	0	0	0
13	90	81	6,891	5,982	433	0	0	0
14	98	84	6,830	5,487	445	0	0	0
15	144	89	7,859	6,014	424	0	0	0
16	137	80	7,868	6,023	415	0	0	0
17	137	88	8,457	6,612	369	0	0	55
18	146	91	7,732	6,897	244	0	0	167
19	135	83	7,846	7,466	160	0	0	235
20	134	79	6,757	6,377	0	0	0	256
21	160	106	6,727	6,347	33	0	0	254
22	165	106	5,805	5,425	208	0	0	193
23	150	95	7,402	7,022	255	0	0	115
24	113	71	5,477	5,097	358	0	0	20
25	122	78	6,609	6,229	520	51	0	1
26	132	86	6,918	5,585	565	178	0	0
27	158	100	9,703	7,976	575	165	0	0
28	148	96	7,519	6,761	605	153	0	0
29	141	87	7,804	7,046	594	146	0	0
30	160	108	8,017	7,552	587	137	0	0
Total	4,376	2,843	212,698	172,339	11,966	830	0	1,296

Table 10. Clifton Court Forebay

Daily Operation of Gates

September 2001

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:30	4:07	7:12	11:03					4,949
2	0:40	4:45	7:06	10:30					4,959
3	0:05	5:17	7:46	13:40					4,959
4	0:10	5:51	8:20	13:00	23:20	---			6,933
5	---	9:25							6,515
6	0:15	11:00							7,736
7	0:20	3:45	6:45	13:27					7,922
8	0:05	4:30	7:36	12:37					7,926
9	0:20	5:26	8:26	11:53					6,942
10	0:08	6:32	11:30	13:49					5,948
11	1:19	7:43	10:43	16:22					7,934
12	2:15	8:50	12:08	16:28					7,930
13	0:01	0:46	3:11	7:50					5,938
14	0:01	1:52	4:18	10:00					6,876
15	0:05	2:48	5:16	11:32	14:40	15:40			7,928
16	0:05	3:38	6:15	12:00	15:30	16:25			7,914
17	0:15	4:28	7:11	12:59					8,526
18	0:45	5:18	8:04	13:42	20:50	21:45			7,931
19	0:20	11:05							7,924
20	0:01	2:56	5:56	11:00					6,921
21	0:10	3:15	7:00	13:00					6,436
22	0:01	4:47	7:47	12:30					6,149
23	0:10	5:53	9:10	12:45					6,901
24	0:28	6:59	15:00	17:15					6,939
25	1:30	7:45	12:33	15:34					6,901
26	2:34	9:14	12:38	15:03					6,940
27	0:06	1:39	3:39	7:45	17:50	22:33			9,906
28	0:04	8:16	18:26	20:51					7,925
29	0:05	7:52							7,934
30	0:05	9:02	23:09	---					7,923
Total inflow for the month in AF:									214,565

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries												
	Beginning and Ending					Entitle-ment	USBR	Local	Loan Water	Carryover Ent.								
	No.	Structure	Mile															
1	1	Banks Pumping Plant	3.32		212,698		72											
		South Bay Pumping Plant	4.49		Bethany Reservoir inlet													
		Check No. 1	5.95															
	2	Check No. 2	12.01															
		3	12.47		Musco Olive	72												
	4		18.29															
	5	22.16	Tracy Golf & Country Club		0													
		23.99																
	6	Check No. 5	29.73															
		Check No. 6	34.24															
2A	7	8	35.22		Turlock Fruit Company Inflow	0	37	131	145	111								
			39.91															
	9		42.46		Oak Flat Water District-A													
			42.9		Western Hills WD	37												
			43.81		Oak Flat Water District-B													
			44.64		Oak Flat Water District-C	131												
	Check No. 8	45.97																
	10	11	46.18		Oak Flat Water District-D	145	31	111	31	0								
					Oak Flat Totals:													
2B	Check No. 9	51.3																
	Check No. 10	56.86																
	Check No. 11	61.4																
	12	Check No. 12	66.14		Veteran's Cemetery	4	4	0	0	0								
			66.71															

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	General Wheeling	Purchase Pool B	Local	Recreation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	11,966	3						
			3.17		0							
			3.18		3							
		Check No. 1	3.91									
2	2	Check No. 2	5.21			14	914	100				
			7.21		Zone 7 Altamont							
		Check No. 3	9.49		Zone 7 Patterson Stored Exchange							
4	4	Check No. 4	10.68			232	232	10				
		Check No. 5	12.29									
			13.55		Zone 7 Wente #1							
			14.16		Zone 7 Wente #2							
	6		14.31		Ising Project Water	10	140	140				
		Check No. 6	14.65									
			14.78		Zone 7 Arroyo Mocho							
	7	Check No. 7	16.38			55	55	25				
			16.57		Zone 7 Wente #3							
	8		16.69		Zone 7 Norman Nursery	17	17	73				
			16.70		Zone 7 Concannon Project Water							
		Del Valle Branch Pipeline Junction	18.63		(Pumped into Lake Del Valle)	99	322	631				
5	8				(Flow into South Bay Aqueduct)							
		Deliveries through Del Valle Branch Pipeline			Arroyo Valle #1 & #2 Project Water							
					Arroyo Valle #1 & #2 Project Water							
					Lake Del Valle Recreation							
					Zone 7 Wente #5							
6			19.20		So. Livermore Project	423	1,997	73				
					So. Livermore Inflow Released							
					So. Livermore Stored Exchanged							
7			19.21		Zone 7 - Kalthrof Detjens	169	2,587					
		La Costa Tunnel	22.50		ACWD Vallecitos Project Water							
8			25.97		City of San Francisco San Antonio							
	Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water:		2,587	4,501						
9		Santa Clara Pipeline	35.86							Inflow Released		
										Stored Exchange:		

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

September 2001

(in acre-feet except as noted)

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Aug 31	701.68	38,987									
1	701.66	38,973	-14	-2	0	0	0	0	12	12	0.00
2	701.57	38,911	-62	-48	0	0	0	0	14	14	0.00
3	701.52	38,876	-35	-14	0	0	0	0	21	21	0.00
4	701.76	39,043	167	185	0	0	0	0	18	18	0.00
5	701.66	38,973	-70	-55	0	0	0	0	15	15	0.00
6	701.63	38,953	-20	0	0	0	0	1	19	20	0.00
7	701.56	38,904	-49	-33	0	0	0	1	15	16	0.00
8	701.54	38,890	-14	4	0	0	0	1	17	18	0.00
9	701.52	38,876	-14	5	0	0	0	1	18	19	0.00
10	701.50	38,862	-14	2	0	0	0	1	15	16	0.00
11	701.48	38,848	-14	-2	0	0	0	1	11	12	0.00
12	701.57	38,911	63	73	0	0	0	1	9	10	0.00
13	701.60	38,932	21	31	0	0	0	1	9	10	0.00
14	701.62	38,946	14	25	0	0	0	1	10	11	0.00
15	701.58	38,918	-28	-15	0	0	0	1	12	13	0.00
16	701.38	38,779	-139	-127	0	0	0	1	11	12	0.00
17	701.34	38,751	-28	37	0	0	55	1	9	65	0.00
18	701.06	38,557	-194	-14	0	0	167	1	12	180	0.00
19	700.71	38,315	-242	3	0	0	235	1	9	245	0.00
20	700.29	38,026	-289	-22	0	0	256	1	10	267	0.00
21	699.95	37,793	-233	34	0	0	254	1	12	267	0.00
22	699.62	37,568	-225	-19	0	0	193	1	12	206	0.00
23	699.48	37,473	-95	35	0	0	115	1	14	130	0.00
24	699.46	37,459	-14	16	0	0	20	1	9	30	0.00
25	699.53	37,507	48	6	51	0	1	1	7	9	0.26
26	699.80	37,691	184	14	178	0	0	1	7	8	0.00
27	699.98	37,814	123	-27	165	0	0	1	14	15	0.00
28	700.16	37,937	123	-20	153	0	0	1	9	10	0.00
29	700.40	38,102	165	31	146	0	0	1	11	12	0.00
30	700.54	38,198	96	-27	137	0	0	1	12	13	0.00
Total		-789	74	830	0	1,296	25	372	1,693	0.26	

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

September 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Aug 31	220.29	43,905											
1	223.26	51,741	7,836	0	2,016	5,657	2,328	0	2,002	4,025	11	-12	
2	222.40	49,447	-2,294	0	2,165	0	2,290	0	2,190	3,291	11	-120	
3	220.40	44,192	-5,255	0	2,166	0	2,177	0	3,288	3,975	11	282	
4	221.12	46,075	1,883	0	2,080	1,185	2,953	0	1,643	4,036	11	421	
5	222.27	49,102	3,027	0	2,104	1,705	2,726	0	1,643	3,633	12	279	
6	222.30	49,182	80	0	2,017	0	3,374	0	2,005	3,595	12	261	
7	222.75	50,379	1,197	0	1,952	0	3,456	0	1,640	3,342	11	188	
8	223.03	51,126	747	0	1,984	0	3,647	0	1,641	3,618	11	16	
9	220.81	45,263	-5,863	0	1,964	0	2,592	0	4,363	3,080	10	-59	
10	220.83	45,315	52	0	1,864	0	2,982	0	1,635	3,159	12	-14	
11	221.44	46,915	1,600	0	2,049	1,009	3,132	0	2,263	3,155	12	47	
12	222.17	48,836	1,921	0	2,053	0	3,647	0	1,635	3,149	12	64	
13	221.40	46,810	-2,026	0	1,813	0	3,089	0	2,991	3,052	12	132	
14	220.31	43,957	-2,853	0	1,330	0	3,046	0	2,712	3,133	14	45	
15	219.87	42,815	-1,142	0	987	0	3,268	0	1,356	3,506	15	46	
16	218.39	39,045	-3,770	0	1,041	0	3,766	0	3,332	3,355	15	-6	
17	218.78	40,027	982	0	997	0	3,803	0	1,170	3,188	13	66	
18	218.93	40,407	380	0	1,155	0	3,409	0	1,260	3,049	13	-50	
19	219.29	41,323	916	0	1,306	0	3,533	0	810	3,559	14	6	
20	218.96	40,483	-840	0	1,255	0	2,908	0	1,440	3,176	14	44	
21	219.67	42,299	1,816	0	1,218	0	3,128	0	630	2,849	13	62	
22	219.70	42,376	77	0	1,155	0	2,954	0	720	3,448	13	111	
23	218.32	38,870	-3,506	0	1,161	0	3,524	0	2,340	4,135	11	33	
24	218.70	39,825	955	0	1,200	0	2,882	0	1,168	2,454	10	31	
25	218.12	38,370	-1,455	0	1,294	0	2,074	0	896	3,325	8	127	
26	218.73	39,901	1,531	0	1,117	1,756	2,767	0	1,704	3,131	8	-25	
27	218.58	39,523	-378	0	764	0	4,386	0	2,339	3,580	9	587	
28	219.04	40,686	1,163	0	1,116	0	3,106	0	0	3,414	9	-213	
29	220.13	43,489	2,803	0	1,537	0	3,568	0	1,524	2,265	8	105	
30	220.24	43,775	286	0	1,650	0	3,577	0	2,660	2,594	8	179	
Total				-130	0	46,510	11,312	94,092	0	55,000	99,271	343	2,634
Mean cfs				---	0	1,550	377	3,136	0	1,833	3,309	11	88
Acre-feet				-130	0	92,250	22,438	186,630	0	109,092	196,908	680	5,232

1/ Pump-in located at Mile 79.67R.

2/ Includes 15 AF delivered to DFG at O'Neill Forebay.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

September 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Aug 31	427.72	760,039							
1	426.89	752,481	-7,558	2,002	5,657	248	0	93	
2	427.32	756,393	3,912	2,190	0	235	0	17	
3	427.95	762,138	5,745	3,288	0	237	0	-155	
4	428.12	763,691	1,553	1,643	1,185	244	0	569	
5	428.03	762,869	-822	1,643	1,705	239	0	-113	
6	428.37	765,976	3,107	2,005	0	234	0	-205	
7	428.67	768,722	2,746	1,640	0	236	0	-20	
8	428.96	771,379	2,657	1,641	0	227	0	-74	
9	429.82	779,277	7,898	4,363	0	214	0	-167	
10	430.07	781,579	2,302	1,635	0	236	0	-238	
11	430.31	783,790	2,211	2,263	1,009	217	0	78	
12	430.57	786,188	2,398	1,635	0	232	0	-194	
13	431.13	791,361	5,173	2,991	0	204	0	-179	
14	431.66	796,268	4,907	2,712	0	208	0	-30	
15	431.90	798,494	2,226	1,356	0	212	0	-22	
16	432.54	804,439	5,945	3,332	0	196	0	-139	
17	432.75	806,393	1,954	1,170	0	203	0	18	
18	432.98	808,535	2,142	1,260	0	203	0	23	
19	433.06	809,280	745	810	0	218	0	-216	
20	433.30	811,518	2,238	1,440	0	221	0	-91	
21	433.40	812,451	933	630	0	234	0	74	
22	433.46	813,011	560	720	0	238	0	-200	
23	433.87	816,841	3,830	2,340	0	218	0	-191	
24	434.08	818,805	1,964	1,168	0	245	0	67	
25	434.23	820,209	1,404	896	0	76	0	-112	
26	434.15	819,460	-749	1,704	1,756	215	0	-111	
27	434.55	823,207	3,747	2,339	0	208	0	-242	
28	434.53	823,019	-188	0	0	132	0	37	
29	434.75	825,082	2,063	1,524	0	183	0	-301	
30	435.23	829,590	4,508	2,660	0	172	0	-215	
Total			69,551	55,000	11,312	6,385	0	-2,239	
Mean cfs			---	1,833	377	213	0	-75	
Acre-feet			69,551	109,092	22,438	12,668	0	-4,435	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 11,880 AF, San Benito: 788 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

September 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	7,984	5,528	11,220	11,220	3,970	1,074	491
2	6,527	4,059	0	0	4,344	108	467
3	7,885	5,306	0	0	6,521	2,237	470
4	8,006	5,276	2,350	2,350	3,258	18	484
5	7,206	4,525	3,382	3,382	3,258	9	474
6	7,131	4,521	0	0	3,977	750	465
7	6,629	4,081	0	0	3,253	12	469
8	7,177	4,690	0	0	3,255	12	451
9	6,109	3,672	0	0	8,655	105	424
10	6,265	3,824	0	0	3,243	1,625	469
11	6,257	3,788	2,002	2,002	4,489	1,297	430
12	6,247	3,752	0	0	3,243	9	460
13	6,053	3,558	0	0	5,933	2,719	405
14	6,215	3,745	0	0	5,380	2,525	413
15	6,954	4,491	0	0	2,690	2,690	420
16	6,655	4,164	0	0	6,610	4,332	389
17	6,324	3,944	0	0	2,321	2,321	403
18	6,048	3,667	0	0	2,499	2,499	403
19	7,060	6,148	0	0	1,607	-20	433
20	6,299	5,392	0	0	2,856	-46	439
21	5,651	4,740	0	0	1,250	5	464
22	6,840	6,442	0	0	1,428	1,068	472
23	8,202	7,821	0	0	4,641	7	433
24	4,868	4,494	0	0	2,317	524	485
25	6,596	6,213	0	0	1,778	-24	150
26	6,210	5,842	3,484	3,484	3,379	-97	427
27	7,101	6,733	0	0	4,639	-22	412
28	6,772	6,400	0	0	0	0	262
29	4,492	4,123	0	0	3,022	-41	363
30	5,145	4,703	0	0	5,276	-9	341
Total	196,908	145,642	22,438	22,438	109,092	25,687	12,668

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
September 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	324.35	18,990					
1	324.34	18,986	-4	0	0	0	-4
2	324.32	18,977	-9	0	0	0	-9
3	324.30	18,968	-9	0	0	0	-9
4	324.27	18,954	-14	0	0	0	-14
5	324.23	18,936	-18	0	0	0	-18
6	324.21	18,927	-9	0	0	0	-9
7	324.18	18,914	-13	0	0	0	-13
8	324.15	18,901	-13	0	0	0	-13
9	324.12	18,887	-14	0	0	0	-14
10	324.11	18,883	-4	0	0	0	-4
11	324.09	18,874	-9	0	0	0	-9
12	324.06	18,860	-14	0	0	0	-14
13	324.05	18,856	-4	0	0	0	-4
14	324.04	18,851	-5	0	0	0	-5
15	324.04	18,851	0	0	0	0	0
16	324.00	18,833	-18	0	0	0	-18
17	323.98	18,824	-9	0	0	0	-9
18	323.97	18,820	-4	0	0	0	-4
19	323.96	18,815	-5	0	0	0	-5
20	323.95	18,811	-4	0	0	0	-4
21	323.95	18,811	0	0	0	0	0
22	323.90	18,789	-22	0	0	0	-22
23	323.88	18,780	-9	0	0	0	-9
24	323.86	18,771	-9	0	0	0	-9
25	323.85	18,766	-5	0	0	0	-5
26	323.84	18,762	-4	0	0	0	-4
27	323.81	18,748	-14	0	0	0	-14
28	323.79	18,740	-8	0	0	0	-8
29	323.78	18,735	-5	0	0	0	-5
30	323.77	18,731	-4	0	0	0	-4
Total			-259	0	0	0	-259
Mean cfs			---	0	0	0	---
Acre-feet			-259	0	0	0	-259

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

September 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Aug 31	600.95	733		0	0	0	
1	Not Observed			0	0	0	
2	Not Observed			0	0	0	
3	Not Observed			0	0	0	
4	Not Observed			0	0	0	
5	Not Observed			0	0	0	
6	Not Observed			0	0	0	
7	601.00	736	3	2	0	0	
8	Not Observed			0	0	0	
9	Not Observed			0	0	0	
10	Not Observed			0	0	0	
11	Not Observed			0	0	0	
12	Not Observed			0	0	0	
13	Not Observed			0	0	0	
14	Not Observed			0	0	0	
15	Not Observed			0	0	0	
16	Not Observed			0	0	0	
17	Not Observed			0	0	0	
18	Not Observed			0	0	0	
19	Not Observed			0	0	0	
20	Not Observed			0	0	0	
21	601.00	736	0	0	0	0	
22	Not Observed			0	0	0	
23	Not Observed			0	0	0	
24	Not Observed			0	0	0	
25	Not Observed			0	0	0	
26	Not Observed			0	0	0	
27	Not Observed			0	0	0	
28	601.00	736	0	0	0	0	
29	Not Observed			0	0	0	
30	601.00	736	0	0	0	0	
Total			3	2	0	0	- - -
Mean cfs			- - -	0	0	0	- - -
Acre-feet			3	4	0	0	-1

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				September 2001				
	Beginning and Ending		Structure			USBR	Transfer 1/	DWR Recreation	USBR Recreation					
	No.	Structure	Mile											
2B	12	Check No. 12	66.71		186,630									
3	13	O'Neill Forebay and San Luis Reservoir	70.85	Department of Parks and Recreation Department of Fish & Game	15			0	0					
		Outlet Check No. 13	70.91	San Luis Water District	665	665		8	7					
			Thru 85.08	(Floodwater Inflow)	0									
		Dos Amigos Pumping Plant	86.73	Reach 3 Subtotal:	680	665	0	8	7					
			89.03											
			Thru 94.06	San Luis Water District	1,741	1,741								
4	14		89.66	Pacheco Water District	352	352								
			Thru 89.67											
			89.68	Panoche Water District	44	44								
			89.70	City of Dos Palos	121	121								
		Check No. 14	95.06											
			98.15	San Luis Water District	140	140								
			Thru 104.20											
			96.15	Panoche Water District	1,144	1,144								
			Thru 102.64	(Floodwater Inflow)	0									
			102.64	Broadview Water District	3	3								
	15		105.22	Westlands Water District	2,437	2,437								
			Thru 108.64											
		Check No.15	108.50											
				Pacheco Water District Total:	352	352	0	0	0					
				Broadview Water District Total:	3	3	0	0	0					
				City of Dos Palos Total:	121	121	0	0	0					
				SLWD Reach 4 Subtotal:	1,881	1,881	0	0	0					
				Panoche Water District Total:	1,188	1,188	0	0	0					
				SLWD Total:	2,546	2,546	0	0	0					
				Westlands WD Reach 4 Subtotal:	2,437	0	2,437	0	0					

1/ From Sacramento Valley Contractors to Westlands WD. Pumped at Banks PP and wheeled through State facilities.

Table 19b. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer 1/	DWR Recreation	USBR Recreation				
		No.	Structure	Mile									
5	16		110.52	(Reverse flow, Kings River)	0	1,169	4,056	1					
			Thru	Westlands Water District	4,056								
			122.05	Department of Fish and Game	1								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	1,571	2,758	402						
			Thru										
		Check No. 17	132.74										
	18		133.81	Westlands Water District	2,758	572	4,276						
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	4,276								
			143.16	City of Coalinga	572								
		Check No. 18	143.23										
				Westlands WD Reach 5 Subtotal:	12,661	3,927	8,734	0	0				
6	19		145.26	Westlands Water District	4,476	4,476							
			Thru										
			151.19										
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	4,476	4,476	0	0	0				
7	20		156.34	City of Huron	92	92							
			156.40	Westlands Water District	1,325								
			Thru										
			163.69										
		Check No. 20	164.69			210							
	21		164.79	City of Avenal	210								
			167.04	Westlands Water District	750								
			Thru										
			171.67										
		Check No. 21	172.40		168,083								
			Reach 7 Total:	2,377	2,377	0	0	0	0				
			Westlands WD Total:	21,649	10,478	11,171	0	0	0				
			City of Coalinga Total:	572	572	0	0	0	0				
			City of Huron Total:	92	92	0	0	0	0				
			City of Avenal Total:	210	210	0	0	0	0				
			Phase I Water Total:	0	0	0	0	0	0				
			Total San Luis Field Division Deliveries:	26,749	15,562	11,171	9	7					

1/ From Sacramento Valley Contractors to Westlands WD. Pumped at Banks PP and wheeled through State facilities.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
September 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Aug 31	29,209								
1	29,205	-4	0	4,025	50	21	590	3,264	-102
2	28,423	-782	0	3,291	43	23	496	3,154	30
3	28,120	-303	0	3,975	44	27	449	3,390	-218
4	28,709	589	0	4,036	58	27	406	2,586	-662
5	29,007	298	0	3,633	56	25	408	2,535	-458
6	28,827	-180	0	3,595	55	25	446	2,888	-271
7	28,635	-192	0	3,342	46	26	449	2,746	-172
8	29,285	650	0	3,618	38	20	403	2,710	-119
9	28,719	-566	0	3,080	42	23	438	2,981	118
10	29,291	572	0	3,159	40	20	353	2,453	-5
11	29,089	-202	0	3,155	32	21	393	2,845	34
12	28,913	-176	0	3,149	33	20	396	2,763	-26
13	28,615	-298	0	3,052	35	21	313	2,814	-20
14	28,729	114	0	3,133	36	21	373	2,521	-125
15	28,837	108	0	3,506	36	20	378	3,070	52
16	28,493	-344	0	3,355	33	23	331	3,179	37
17	28,491	-2	0	3,188	40	15	320	2,830	16
18	28,599	108	0	3,049	42	16	329	2,607	-1
19	28,551	-48	0	3,559	42	16	330	3,257	62
20	28,490	-61	0	3,176	34	20	384	2,926	157
21	28,413	-77	0	2,849	35	22	308	2,503	-20
22	28,521	108	0	3,448	30	23	320	2,922	-99
23	28,068	-453	0	4,135	41	22	390	4,004	94
24	28,431	363	0	2,454	31	11	365	1,941	77
25	28,273	-158	0	3,325	34	16	312	2,741	-302
26	27,371	-902	0	3,131	30	16	317	3,154	-69
27	27,527	156	0	3,580	39	15	336	2,991	-121
28	27,938	411	0	3,414	39	16	339	2,675	-138
29	27,829	-109	0	2,265	36	14	343	1,895	-32
30	27,455	-374	0	2,594	37	14	346	2,399	13
Total		-1,754	0	99,271	1,187	599	11,361	84,741	-2,268
Mean cfs		---	0	3,309	40	20	379	2,825	-76
Acre-feet		-1,754	0	196,908	2,354	1,188	22,534	168,083	-4,503

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (0 AF @ Lat.7L) and Flood Water (0 AF) is included in the gain or loss.

3/ Includes 351 AF AG & 1 AF M&I to Pacheco W.D. and 121 AF to the City of Dos Palos.

4/ Includes 92 AF to the City of Huron, 210 AF to the City of Avenal, 572 AF to the City of Coalinga, 7 AF Phase I Water @ Lat. 13R, 1 AF to F&G @ WWD Lateral 4L, and 3 AF to Broadview W.D.

September 2001

(in acre-feet)

Table 21. San Joaquin Field Division Plant Data

Date	Coastal Aqueduct					California Aqueduct				
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant	
1	477	477	107	98	101	5,538	5,381	5,191	5,060	
2	468	468	109	100	111	5,117	5,338	5,178	5,049	
3	304	304	72	68	77	6,238	6,288	6,115	6,094	
4	369	369	64	59	66	4,011	3,879	3,745	3,543	
5	373	373	117	108	112	4,115	3,777	3,611	3,615	
6	387	387	102	92	97	5,044	5,110	4,812	4,695	
7	422	422	123	116	117	4,726	4,579	4,645	4,475	
8	463	463	109	102	105	4,649	4,451	4,339	4,193	
9	386	386	73	70	74	4,723	4,766	4,674	4,512	
10	301	301	73	71	75	4,357	4,508	4,412	4,351	
11	381	381	98	89	92	4,566	4,609	4,455	4,389	
12	306	306	70	64	69	4,987	4,596	4,432	4,217	
13	337	337	78	73	79	4,819	4,654	4,434	4,217	
14	339	339	86	79	86	4,634	4,572	4,417	4,217	
15	217	217	68	64	70	5,173	4,943	4,899	4,706	
16	149	149	70	64	70	4,988	5,335	5,255	5,157	
17	165	165	78	73	79	4,618	4,585	4,446	4,351	
18	160	160	76	70	76	4,673	4,571	4,332	4,193	
19	198	198	81	74	81	4,705	4,535	4,395	4,143	
20	206	206	79	74	79	4,876	4,820	4,681	4,461	
21	209	209	98	88	95	4,035	3,796	3,737	3,541	
22	224	224	96	91	96	4,583	4,775	4,707	4,550	
23	223	223	86	78	84	6,226	6,310	6,254	6,140	
24	203	203	92	85	92	3,224	3,251	3,053	2,916	
25	240	240	92	84	89	4,343	4,357	4,242	4,020	
26	245	245	82	77	83	5,148	5,215	5,050	4,859	
27	267	267	81	74	78	5,025	4,018	2,656	3,072	
28	280	280	112	106	110	4,018	3,926	3,819	3,599	
29	277	277	102	97	99	2,656	2,644	2,593	2,463	
30	225	225	105	96	101	3,072	3,331	3,302	3,223	
31	Total	8,801	8,801	2,679	2,484	2,643	138,887	136,920	131,881	128,021

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	USBR	Return of Contractor Pump-in	Purchase Pool A	Purchase Pool B	Dry Year Purchase		
	No.	Structure	Mile										
7	21	Check No. 21	172.40		168,083								
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	128 123 340 1,564 412 1,315	937	0	0	0	646		
				County of Kings TL - A	0								
				TLBWS D TL-A	0								
8D			175.18	DRWD - 1	128								
			177.54	DRWD - 1B	123								
			180.64	TLBWS D - C	0								
31A	8D		180.65	DRWD - 1A	340	1,564 412 3,470 412	500	0	0	0	646		
			182.99	DRWD - 2	2,210								
			183.00	Tulare Lake Basin WSD TL - B	412								
			184.63	Coastal Branch	8,801								
			184.78	Dudley Ridge Water Dist. DRWD - 3	1,315								
				Dudley Ridge Reach 8D Total:	4,116								
9	23			Tulare Lake Basin WSD Total:	412	2,278 540 106 13	937	0	0	0	0		
			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	3,215	2,937	0	937	0	0	0		
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	540								
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	106								
			196.40	Kern County Water Agency Berrenda Mesa - 2	0								
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	13								
				K.C.W.A. Reach 9 Subtotal:	3,874								
10A	24		Check No. 23	197.05		353 83	637	3,875	500				
			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	353	209.71 209.78 209.80	1,137 3,875 0 0 0	0	3,875	0	0		
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	83								
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0								
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0								
			Check No. 24	207.94									
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,137								
			209.78	Kern National Wildlife Refuge USBR BV-1B	3,875								
				Kern County Water Agency Buena Vista WSD 1B	0								
			209.80	KCWA Semitropic WSD KCWA Semitropic WSD Penstocks	0 0								
				USBR Total:	3,875	0	3,875		0	0	0		
				K.C.W.A. Reach 10A Subtotal:	1,573	1,073	0	500	0	0	0		

Table 22b. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Return of Contractor Pump-in	Purchase Pool A	Purchase Pool B	Other 2/		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	53	5,715	0	0	0		
			214.11	Kern County Water Agency Belridge - 3	53							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5	6,104	389	5,715	0	0	0		
				Kern County Water Agency Belridge - 5D	63							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	6,220	505	5,715	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	8						
				Kern County Water Agency West Kern - 2	8							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	0							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	8	8	0	0	0	0		
13B	29		238.19	Kern Water Bank Inflow	2,959	1,277	1,111	231	340	57		
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	356							
		Check No. 29	244.54	Buena Vista WSD	0							
	30		249.85	Kern County Water Agency Buena Vista - 4	0							
		Buena Vista Pumping Plant	250.99		138,887							
				K.C.W.A. Reach 13B Subtotal:	3,315	1,336	1,351	231	340	57		
14A	31		254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Dry year purchase, 2001.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	Return of Contractor Pump-in	Purchase Pool A	Purchase Pool B	MWD Ent.		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			51	396	0	0	0		
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	51							
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	396							
		Check No. 32	261.72									
				KCWA Reach 14A Subtotal:	447	447						
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,423	1,423	678	65	0	0		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	678							
		Check No. 33	267.36									
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,500	1,435	65	0	0	0		
		Check No. 34	271.27									
				Reach 14B Total:	3,601	3,536	65					
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,087	1,087	218	0	0	0		
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	218							
				Reach 14C Total:	1,305							
	Teerink Pumping Plant		278.13		136,920							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	396	396	2,554	0	0	0		
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,554							
				Reach 15-A Total:	2,950							
		Chrisman Pumping Plant	280.36		131,881							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
		Check No. 37	283.95									
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	18	18	49	0	0	0		
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	49							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
		Check No. 38	287.09									
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	85			0	0	0		
		Check No. 39	290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	732	732	257	0	0	0		
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	257							
				Kern County Water Agency Tehachapi Cummings CWD	851							
				K.C.W.A. Reach 16A Subtotal:	1,992	1,992						
17E	Edmonston Pumping Plant	293.45			128,021							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Entitlement			Return of Contractor Pump-in	Purchase Pool A	Purchase Pool B	Dry Year Purchase			
	No.	Structure										
31A	C-1	Coastal Branch Control	0.02		8,801	18	778	5,455	0			
		Las Perillas Pumping Plant	1.16		8,801							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		8,801							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	18							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	778							
			14.83	Kern County Water Agency Berrenda Mesa - DD	0							
				Kern County Water Agency Berrenda Mesa - PO	5,455							
		Devil's Den Pumping Plant	14.86		2,679							
				K.C.W.A. Reach 31A Subtotal:	6,233	6,233	0	0	0	0		
				K.C.W.A. Total:	31,461	22,322	8,568	231	340	0		
33A	C-7	Bluestone Pumping Plant	19.05		2,484	2,249	396	0	0			
	C-8	Polonio Pass Pumping Plant	26.54		2,643							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,249							
34		Tank Site 2	58.63	Central Coast:	0							
C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	396								
	35		Energy Dissipater	78.12								
C-12	Lopez T.O.	85.86	SLOCFC & WCD	0								
	38				CCWA Total:						2,645	
			Guadalupe T.O.	102.70	SBCFC & WCD						0	
			Santa Maria T.O.	107.43	SBCFC & WCD						0	
			So. Cal. Water T.O.	109.20	SBCFC & WCD						0	
					SBCFC & WCD Total:	0	0	0	0	0	0	
			Tank Site 5	115.42								

Table 24. Southern Field Division Plant Data

(in acre-feet)

September 2001

Date	West Branch					East Branch									Devil Canyon Powerplant Generation	
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Generation	Leakage	Bypass Flume	
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume				
1	3,044	2,688	0	6,207	6,260	1,645	0	365	1,697	1,747	0	0	0	0	1,910	
2	928	33	0	4,859	6,396	3,454	0	520	3,620	3,565	0	0	0	0	1,864	
3	1,944	1,997	0	1,986	5,828	3,445	0	601	3,399	3,314	0	0	0	0	2,060	
4	1,478	1,886	0	5,594	3,890	1,819	0	207	1,867	2,134	0	0	0	0	2,090	
5	1,540	1,893	0	2,600	2,285	1,905	0	121	1,810	2,112	0	0	0	0	1,856	
6	2,060	2,021	0	5,393	1,161	2,373	0	177	1,858	2,000	0	0	0	0	2,209	
7	2,270	2,317	0	730	618	2,025	0	124	1,861	1,815	0	0	0	0	1,839	
8	2,066	2,517	0	4,677	2,131	2,096	0	0	1,888	1,967	0	0	0	0	2,034	
9	1,353	63	0	3,171	2,493	2,834	0	263	2,716	2,764	0	0	0	0	1,750	
10	2,093	2,254	0	4,184	1,894	1,880	0	327	1,802	1,752	0	0	0	0	1,972	
11	2,026	2,388	0	3,236	0	2,033	0	190	1,900	2,039	0	0	0	0	1,919	
12	1,924	2,287	0	6,565	950	1,941	0	293	1,819	1,803	0	0	0	0	1,876	
13	2,054	2,307	0	6,992	952	2,018	0	104	1,780	1,882	0	0	0	0	1,712	
14	2,034	2,248	0	6,825	3,966	2,157	0	49	1,711	1,754	0	0	0	0	1,939	
15	2,879	2,520	0	0	4,995	1,679	0	127	1,697	1,885	0	0	0	0	1,593	
16	2,240	1,125	0	5,310	3,629	2,829	0	59	2,440	1,913	0	0	0	0	1,645	
17	2,353	2,690	0	6,138	4,469	1,754	0	188	1,517	2,044	0	0	0	0	1,932	
18	2,215	2,387	0	6,618	4,491	1,933	0	38	1,590	1,743	0	0	0	0	1,852	
19	2,072	1,782	0	6,463	4,208	2,027	0	98	1,795	1,746	0	0	0	0	1,991	
20	2,334	2,366	0	8,622	3,362	1,981	0	107	1,629	1,777	0	0	0	0	1,764	
21	2,032	2,217	0	7,957	4,139	1,492	0	0	1,278	1,270	0	0	0	0	1,773	
22	2,639	2,561	0	1,518	3,445	1,923	0	0	1,404	1,478	0	0	0	0	1,933	
23	3,571	3,150	0	5,084	4,317	2,549	0	62	2,201	1,579	0	0	0	0	1,664	
24	2,438	2,738	0	7,532	2,488	460	0	0	245	0	0	0	0	0	1,700	
25	2,452	2,484	0	6,150	2,934	1,570	0	0	1,294	1,484	0	0	0	0	2,026	
26	2,077	2,218	0	6,364	4,304	2,649	0	128	2,678	2,696	0	0	0	0	1,757	
27	1,963	2,346	0	7,024	3,178	2,834	0	151	2,472	2,646	0	0	0	0	1,929	
28	1,270	1,030	0	6,110	3,063	2,105	0	182	1,810	1,778	0	0	0	0	2,059	
29	666	0	0	1,141	4,533	1,724	0	85	1,504	1,598	0	0	0	0	2,046	
30	0	193	0	3,794	4,040	3,174	0	0	2,786	2,714	0	0	0	0	1,896	
31	Total	60,015	58,706	0	148,844	100,419	64,308	0	4,566	58,068	58,999	0	0	0	56,590	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
Aug 31	2566.84	155,890								
1	2568.82	158,319	2,429	6,260	2,688	16	6,207	0	53	-275
2	2570.00	159,778	1,459	6,396	33	17	4,859	0	49	-79
3	2574.52	165,447	5,669	5,828	1,997	19	1,986	0	47	-142
4	2574.52	165,447	0	3,890	1,886	35	5,594	0	47	-170
5	2575.83	167,115	1,668	2,285	1,893	22	2,600	0	45	113
6	2573.84	164,586	-2,529	1,161	2,021	19	5,393	1	45	-291
7	2575.51	166,706	2,120	618	2,317	19	730	0	43	-61
8	2575.41	166,579	-127	2,131	2,517	18	4,677	0	43	-73
9	2574.88	165,904	-675	2,493	63	18	3,171	0	41	-37
10	2574.80	165,803	-101	1,894	2,254	17	4,184	0	41	-41
11	2574.05	164,852	-951	0	2,388	18	3,236	0	39	-82
12	2571.36	161,470	-3,382	950	2,287	17	6,565	0	39	-32
13	2568.27	157,642	-3,828	952	2,307	17	6,992	0	37	-75
14	2567.71	156,955	-687	3,966	2,248	16	6,825	0	37	-55
15	2573.69	164,396	7,441	4,995	2,520	16	0	0	35	-55
16	2573.21	163,791	-605	3,629	1,125	16	5,310	0	35	-30
17	2573.79	164,523	732	4,469	2,690	16	6,138	0	33	-272
18	2573.97	164,750	227	4,491	2,387	16	6,618	0	33	-16
19	2573.55	164,220	-530	4,208	1,782	16	6,463	1	31	-41
20	2571.17	161,233	-2,987	3,362	2,366	16	8,622	0	31	-78
21	2569.76	159,481	-1,752	4,139	2,217	16	7,957	0	29	-138
22	2573.31	163,917	4,436	3,445	2,561	16	1,518	0	29	-39
23	2575.16	166,260	2,343	4,317	3,150	15	5,084	0	27	-28
24	2573.12	163,677	-2,583	2,488	2,738	15	7,532	0	27	-265
25	2572.46	162,847	-830	2,934	2,484	15	6,150	0	25	-88
26	2572.42	162,797	-50	4,304	2,218	15	6,364	0	25	-198
27	2570.59	160,511	-2,286	3,178	2,346	15	7,024	0	22	-779
28	2568.94	158,467	-2,044	3,063	1,030	15	6,110	0	22	-20
29	2571.43	161,558	3,091	4,533	0	14	1,141	0	20	-295
30	2571.78	161,995	437	4,040	193	14	3,794	0	20	4
Total				6,105	100,419	58,706	514	148,844	2	1,050
										-3,638

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Aug 31	1531.27	28,272								
1	1528.25	26,877	-1,395	6,207	0	6,260	0	1,343	1	
2	1524.99	25,411	-1,466	4,859	0	6,396	0	0	71	
3	1516.12	21,617	-3,794	1,986	0	5,828	0	0	48	
4	1513.21	20,441	-1,176	5,594	0	3,890	0	2,880	0	
5	1505.89	17,636	-2,805	2,600	0	2,285	0	3,120	0	
6	1517.03	21,992	4,356	5,393	0	1,161	0	0	124	
7	1507.27	18,149	-3,843	730	0	618	0	3,955	0	
8	1506.39	17,821	-328	4,677	0	2,131	0	2,875	1	
9	1508.26	18,521	700	3,171	0	2,493	0	0	22	
10	1513.99	20,752	2,231	4,184	0	1,894	0	0	-59	
11	1513.68	20,628	-124	3,236	0	0	0	3,359	-1	
12	1519.33	22,956	2,328	6,565	0	950	0	3,286	-1	
13	1532.54	28,869	5,913	6,992	0	952	0	0	-127	
14	1529.69	27,538	-1,331	6,825	0	3,966	0	4,190	0	
15	1508.53	18,623	-8,915	0	0	4,995	0	3,919	-1	
16	1512.85	20,298	1,675	5,310	0	3,629	0	0	-6	
17	1517.20	22,063	1,765	6,138	0	4,469	0	0	96	
18	1515.35	21,303	-760	6,618	0	4,491	0	2,888	1	
19	1513.51	20,560	-743	6,463	0	4,208	0	2,998	0	
20	1525.63	25,696	5,136	8,622	0	3,362	0	0	-124	
21	1527.18	26,391	695	7,957	0	4,139	0	3,122	-1	
22	1515.02	21,169	-5,222	1,518	0	3,445	0	3,296	1	
23	1512.08	19,993	-1,176	5,084	0	4,317	0	1,943	0	
24	1516.36	21,716	1,723	7,532	0	2,488	0	3,312	-9	
25	1523.70	24,842	3,126	6,150	0	2,934	0	0	-90	
26	1517.85	22,333	-2,509	6,364	0	4,304	0	4,568	-1	
27	1527.97	26,749	4,416	7,024	0	3,178	0	0	570	
28	1527.61	26,586	-163	6,110	0	3,063	0	3,209	-1	
29	1512.58	20,191	-6,395	1,141	0	4,533	0	3,003	0	
30	1511.93	19,934	-257	3,794	0	4,040	0	0	-11	
Total			-8,338	148,844	0	100,419	0	57,266	503	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Aug 31	1489.70	270,027							
1	1490.06	270,750	723	0	1,343	0	1,559	0	
2	1489.31	269,243	-1,507	0	0	0	1,476	0	
3	1488.59	267,799	-1,444	0	0	0	3,076	0	
4	1489.37	269,364	1,565	0	2,880	0	1,424	0	
5	1490.12	270,871	1,507	0	3,120	0	1,433	0	
6	1489.34	269,304	-1,567	0	0	0	1,402	0	
7	1490.56	271,757	2,453	0	3,955	0	1,423	0	
8	1491.22	273,090	1,333	0	2,875	0	1,456	0	
9	1490.56	271,757	-1,333	0	0	0	1,229	0	
10	1489.93	270,491	-1,266	0	0	0	1,202	0	
11	1490.86	272,362	1,871	0	3,359	0	1,227	0	
12	1491.79	274,244	1,882	0	3,286	0	1,274	0	
13	1491.19	273,029	-1,215	0	0	0	1,173	0	
14	1492.60	275,889	2,860	0	4,190	0	1,213	0	
15	1493.81	278,357	2,468	0	3,919	0	1,436	0	
16	1493.18	277,070	-1,287	0	0	0	1,215	0	
17	1492.54	275,767	-1,303	0	0	0	1,210	0	
18	1493.35	277,417	1,650	0	2,888	0	1,172	0	
19	1494.19	279,134	1,717	0	2,998	0	1,183	0	
20	1493.56	277,846	-1,288	0	0	0	1,238	0	
21	1494.46	279,688	1,842	0	3,122	0	1,138	0	
22	1495.51	281,846	2,158	0	3,296	0	1,138	0	
23	1495.93	282,712	866	0	1,943	0	957	0	
24	1497.01	284,946	2,234	0	3,312	0	1,011	0	
25	1496.38	283,642	-1,304	0	0	0	1,283	0	
26	1497.80	286,587	2,945	0	4,568	0	1,389	56	
27	1497.14	285,216	-1,371	0	0	0	1,249	67	
28	1497.83	286,650	1,434	0	3,209	0	1,529	67	
29	1498.67	288,401	1,751	0	3,003	0	1,438	0	
30	1498.01	287,024	-1,377	0	0	0	1,416	39	
Total			16,997	0	57,266	0	40,569	190	
								490	

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitle-ment	Rec.	Water Bank Recovery	Flexible Pay Back Entitlement	CLWA T1			
	No.	Structure	Mile										
29A	42	Oso Pumping Plant	1.49		60,015								
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved								
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub								
29G		Warne Power Plant	14.07		58,706								
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0								
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0								
		Castaic Power Plant	25.82	(100,419 AF pumpback)	148,844								
29J	W4	Elderberry Forebay											
		Forebay Dam	28.12										
		Castaic Lake		Calif. State Park Castaic Lake Recreation	0								
30 1/	W5	Castaic Dam	31.47										
		Castaic Lake Outlet	31.55	MWD - 78"	0		21,500	5,000	10,000	1,340			
				MWD - 132"	36,500								
				MWD-Castaic Lake WA - T1	0								
				Castaic Lake WA - T1	1,340								
				Castaic Lake WA	2,259		2,259						
				United Water Conservation Dist.	0								
				MWD - Ventura County FCD	154		154						
				LA Co. Parks & Recreation	0								
				Releases to Lagoon	190								
				Reach 30 Subtotal:	40,253		23,913	0	5,000	10,000	1,340		
	W6	Castaic Lagoon		Recreation to Lagoon	0								
		Castaic Lagoon Outlet	31.87										

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel				
Aug 31	3348.75	69,005											
1	3348.68	68,940	-65	1,747	0	0	7	0	1,910	0	0	105	
2	3350.40	70,554	1,614	3,565	0	0	5	1	1,864	0	1	-80	
3	3351.71	71,796	1,242	3,314	0	0	7	0	2,060	0	0	-5	
4	3351.70	71,787	-9	2,134	0	0	5	1	2,090	0	1	-46	
5	3351.89	71,968	181	2,112	0	0	7	0	1,856	0	0	-68	
6	3351.79	71,873	-95	2,000	0	0	7	0	2,209	0	1	122	
7	3351.74	71,825	-48	1,815	0	0	6	0	1,839	0	0	-18	
8	3351.45	71,549	-276	1,967	0	0	6	1	2,034	0	1	-201	
9	3352.63	72,676	1,127	2,764	0	0	13	0	1,750	0	0	126	
10	3352.32	72,379	-297	1,752	0	0	7	0	1,972	0	1	-69	
11	3352.47	72,523	144	2,039	0	0	6	1	1,919	0	0	31	
12	3352.42	72,475	-48	1,803	0	0	6	0	1,876	0	0	31	
13	3352.51	72,561	86	1,882	0	0	6	0	1,712	0	0	-78	
14	3352.41	72,465	-96	1,754	0	0	6	1	1,939	0	0	96	
15	3352.70	72,743	278	1,885	0	0	6	0	1,593	0	1	-7	
16	3352.89	72,926	183	1,913	0	0	7	0	1,645	0	0	-78	
17	3353.00	73,032	106	2,044	0	0	5	1	1,932	0	1	1	
18	3352.72	72,762	-270	1,743	0	0	7	0	1,852	0	0	-154	
19	3352.39	72,446	-316	1,746	0	0	7	0	1,991	0	1	-63	
20	3352.59	72,638	192	1,777	0	0	6	1	1,764	0	0	186	
21	3352.02	72,092	-546	1,270	0	0	5	0	1,773	0	1	-37	
22	3351.57	71,663	-429	1,478	0	0	7	0	1,933	0	0	33	
23	3351.47	71,568	-95	1,579	0	0	6	1	1,664	0	1	-2	
24	3350.46	70,610	-958	0	0	0	7	0	1,700	0	0	749	
25	3349.61	69,810	-800	1,484	0	0	4	1	2,026	0	0	-253	
26	3350.75	70,884	1,074	2,696	0	0	5	1	1,757	0	0	141	
27	3351.56	71,653	769	2,646	0	0	5	0	1,929	0	1	58	
28	3351.17	71,283	-370	1,778	0	0	5	0	2,059	0	0	-84	
29	3350.63	70,771	-512	1,598	0	0	4	1	2,046	0	0	-59	
30	3351.48	71,577	806	2,714	0	0	2	0	1,896	0	0	-10	
Total				2,572	58,999	0	0	182	11	56,590	0	11	367
												75	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

September 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Aug 31	1584.87	119,744				
1	1584.88	119,766	22		12	
2	1584.86	119,721	-45		10	
3	1584.86	119,721	0		12	
4	1584.83	119,654	-67		11	
5	1584.82	119,631	-23		11	
6	1584.85	119,699	68		10	
7	1584.81	119,609	-90		10	
8	1584.85	119,699	90		10	
9	1584.90	119,811	112		11	
10	1584.86	119,721	-90		12	
11	1584.95	119,923	202		12	
12	1584.90	119,811	-112		12	
13	1584.93	119,878	67		12	
14	1585.00	120,035	157		10	
15	1585.05	120,147	112		10	
16	1585.10	120,260	113		10	
17	1585.17	120,417	157		12	
18	1585.19	120,462	45		11	
19	1585.26	120,619	157		10	
20	1585.37	120,867	248		12	
21	1585.45	121,047	180		10	
22	1585.46	121,069	22		10	
23	1585.56	121,294	225		10	
24	1585.57	121,317	23		11	
25	1585.60	121,385	68		11	
26	1585.62	121,430	45		11	
27	1585.69	121,587	157		10	
28	1585.72	121,655	68		10	
29	1585.81	121,858	203		12	
30	1585.88	122,016	158		12	
Total			2,272	4,733	327	-2,134

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Transfer 1/	Dry Year Purchase	Transfer Local Out		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		128,021							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 4,566 AF flow down Cottonwood Chute)	64,308		65	240	1,127			
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	65							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	3,107							
		Check No. 46	323.84									
				Reach 19 Total:	3,172							
20A	47	Check No. 47	326.77				122	0	240	1,127		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	123							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
20B	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0		261	85	3,214			
			339.68	Antelope Valley-East Kern WA	3,475							
		Check No. 50	341.51	Antelope Valley-East Kern WA	85							
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
		Check No. 52	343.74									
21	53		346.98	PWD Palmdale	1,407		1,407	15				
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	15							
	Check No. 53		348.17									
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
22A	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
	57	Check No. 57	356.93									
	58		357.60	Antelope Valley-East Kern WA	11							
			357.72	Antelope Valley-East Kern WA 96th Street East	103							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	442							

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

September 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recreation	Water Bank Recovery	Flexible Pay Back Entitlement	Local		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		58,068	190				75		
	59	Check No. 59	366.09									
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20		Mojave Water Agency Mojave River		0					
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10		Mojave Water Agency Morongo 24" and 42"		190					
					Mojave Water Agency Hesperia		0					
23	Check No. 66	403.41										
24	Mojave Siphon	405.48	Las Flores Ranch		75	182				75		
	Mojave Siphon Powerplant	405.65			58,999							
	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency		182							
			Calif. State Park Silverwood Agency (Rec.)		0							
	San Bernardino Tunnel	411.46			56,590							
25			San Gorgonio Pass Water Agency		0							
26A	Devil Canyon Powerplant	412.73			56,590	18,010						
	Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto		18,010							
			Desert Water Agency (MWD Wheeling Exchange)		3,145							
			San Gabriel Valley Water District		0							
			Coachella Valley WD (MWD Wheeling Exchange)		0							
			San Bernardino Valley MWD 24" and 72"		2,355							
			San Bernardino Valley MWD 48"		221							
			MWD (SBVMWD Exchange)		0							
28G	Santa Ana Valley Pipeline	425.46				3,145						
28H		433.06	MWD-SC Box Springs		8,768							
		440.05	MWD-SC Perris Bypass Pipeline		20,238							
28J	Lake Perris	442.00	MWD-SC 18"		286							
		443.44	MWD-SC 54"		0							
			MWD-SC 78"		0							
			Calif. State Park Lake Perris Recreation		0							
			MWD Total:		88,441	72,101	0	5,000	10,000	1,340		

Table 32. Water Quality At Selected SWP Locations

September 2001

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	42	98	83	85	83	78	78	81	78
Antimony	mg/l	NR	<0.005	<0.005	NR	<0.005	<0.005	<0.005	NR	NR
Arsenic	mg/l	<0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	NR	0.03	0.49	0.47	0.44	0.39	0.38	0.19	0.29
Calcium	mg/l	8	16	19	20	19	19	20	19	20
Carbon - Dissolved Organic	mg/l as C	NR	3	3	3	2	3	2	3	2
Carbon - Total Organic	mg/l as C	NR	4	2	3	2	2	2	3	2
Chloride	mg/l	<5	15	147	144	138	124	116	59	84
Chromium	mg/l	0.003	0.007	0.006	0.006	0.005	0.005	0.005	0.006	0.005
Copper	mg/l	0.001	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.013
Fluoride	mg/l	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Hardness	mg/l as CaCO ₃	36	89	117	120	115	108	108.5	109	99
Iron	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	12	17	17	16.2	15	14.5	15	12
Manganese	mg/l	<0.005	0.009	0.005	<0.005	0.010	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.23	0.34	NR	NR	0.30	NR	0.27	0.40
Phosphorus-Ortho	mg/l as P	<0.01	0.09	0.07	NR	NR	0.08	NR	0.07	0.07
Phosphorus-Total	mg/l	<0.01	0.18	0.11	NR	NR	0.09	NR	0.12	0.11
Selenium	mg/l	NR	<0.001	0.002	NR	NR	NR	0.002	NR	NR
Sodium	mg/l	3	20	85	86	80	73	72	71	55
Specific Conductance	µS/cm	87	265	715	713	681	626	600	619	508
Sulfate	mg/l	2	15	36	37	36	35	35	18.5	36
Total Dissolved Solids	mg/l	56	157	381	381.5	360	335.5	323	327	274
Turbidity	NTU	2	52	10	11.5	6	3	9.5	8	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

September 2001

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l			
	Net Delta Outflow Index		Rio Vista	Antioch	Chipps island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	Contra Costa Canal Intake			
	(Antioch) Daily Mean															
	Hi	Half		Mean Daily	Monthly Average	md	md	md	14dm	md	14dm	md	md	md		
38	1	3.09	1.21	4,576	4,576	6,215	5.02	12.40	1.97	1.66	1.73	1.62	0.63	0.44	0.53	190
	2	2.97	1.18	4,355	4,466	6,167	4.62	12.44	1.88	1.67	1.73	1.63	0.63	0.42	0.53	192
	3	2.91	1.17	4,537	4,489	6,258	4.54	12.31	1.83	1.67	1.67	1.63	0.64	0.47	0.55	195
	4	2.80	1.21	3,865	4,333	6,238	4.78	12.48	1.73	1.68	1.70	1.65	0.64	0.55	0.56	184
	5	2.53	1.35	3,807	4,228	6,520	4.60	12.54	1.81	1.69	1.67	1.66	0.68	0.56	0.56	197
	6	2.40	1.04	3,550	4,115	6,575	4.42	10.10	1.53	1.71	1.63	1.68	0.69	0.57	0.55	190
	7	2.64	1.00	3,615	4,044	6,525	4.56	12.03	1.59	1.74	1.69	1.70	0.66	0.52	0.57	192
	8	3.02	1.47	3,630	3,992	6,426	5.53	13.57	1.88	1.79	1.91	1.73	0.67	0.47	0.57	198
	9	3.07	1.42	3,973	3,990	6,397	5.54	13.76	1.99	1.84	1.93	1.76	0.68	0.42	0.55	202
	10	3.11	1.30	4,626	4,054	6,718	5.06	12.51	1.59	1.86	1.79	1.77	0.67	0.46	0.56	194
	11	3.19	1.34	4,035	4,052	6,571	4.81	12.75	1.27	1.83	1.70	1.77	0.66	0.45	0.55	196
	12	3.40	1.48	3,871	4,037	6,631	5.16	13.47	1.81	1.81	1.91	1.77	0.69	0.42	0.55	206
	13	3.40	1.36	4,777	4,094	7,043	5.15	12.53	1.96	1.78	1.85	1.76	0.66	0.42	0.59	200
	14	3.27	1.16	5,357	4,184	6,797	4.94	12.00	1.65	1.75	1.74	1.76	0.69	0.43	0.60	190
	15	3.32	1.27	4,736	4,221	6,442	5.11	12.79	1.90	1.74	1.75	1.76	0.70	0.41	0.62	212
	16	3.33	1.24	4,278	4,224	6,394	5.04	12.80	1.93	1.75	1.72	1.76	0.73	0.44	0.63	215
	17	3.13	1.45	3,970	4,209	6,488	4.89	12.35	1.93	1.76	1.66	1.76	0.70	0.47	0.64	208
	18	3.03	1.68	3,951	4,195	6,444	4.49	12.58	1.91	1.77	1.70	1.76	0.70	0.49	0.63	198
	19	2.96	1.50	3,784	4,173	6,322	4.80	12.65	2.06	1.79	1.75	1.77	0.73	0.52	0.59	213
	20	3.02	1.30	4,074	4,168	6,103	4.87	12.73	2.09	1.83	1.75	1.78	0.72	0.52	0.60	207
	21	3.02	1.69	4,050	4,163	6,233	4.52	12.33	1.99	1.85	1.70	1.78	0.73	0.55	0.59	215
	22	3.02	1.51	4,486	4,178	6,337	4.67	11.64	1.73	1.84	1.68	1.76	0.73	0.58	0.59	215
	23	3.03	1.28	4,181	4,178	5,940	4.94	12.28	1.91	1.84	1.71	1.74	0.73	0.58	0.60	202
	24	2.93	1.31	3,732	4,159	7,031	4.85	12.31	1.83	1.86	1.72	1.74	0.68	0.67	0.62	218
	25	2.74	1.16	5,408	4,209	7,099	4.52	11.40	1.53	1.87	1.58	1.73	0.64	0.67	0.62	207
	26	2.81	1.16	6,172	4,285	6,555	4.53	11.67	1.60	1.86	1.57	1.71	0.67	0.61	0.61	215
	27	2.81	1.20	4,395	4,289	6,590	4.72	12.37	1.79	1.85	1.60	1.69	0.67	0.58	0.60	227
	28	2.79	1.06	4,972	4,313	6,843	4.57	11.85	1.54	1.84	1.55	1.67	0.68	0.60	0.57	222
	29	2.55	0.90	5,190	4,343	6,377	4.34	11.37	1.41	1.80	1.49	1.66	0.68	0.61	0.55	232
	30	2.52	0.89	3,454	4,314	5,897	3.79	11.18	1.47	1.77	1.50	1.64	0.67	0.60	0.55	240

Clifton Court Cl(mg/l)=200X EC - 25

N.R. = No Record.

N.C. = Not computed due to insufficient data.

e = Estimated

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

September 2001

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 19, 2001	Toluene 2,4-Dichlorophenylacetic acid (DCAA)	1.1 1.06
California Aqueduct At Banks Pumping Plant	September 19, 2001	Toluene 2,4-Dichlorophenylacetic acid (DCAA)	0.73 0.909
O'Neill Forebay Outlet Check 13	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.88
Delta Mendota Canal At McCabe Road	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA) Methyl tert-butyl ether (MTBE)	0.94 1.2
California Aqueduct Near Kettleman City (Check 21)	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.82
California Aqueduct At Near Highway 119 (Check 21)	September 18, 2001	2,4-Dichlorophenylacetic acid (DCAA)	1.00
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	September 17, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.81

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

September 2001

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	858,528	4,320	35,511	46,375	1,470,336	875,336	358,655	306
2	23,616	1,956,384	27,895	38,878	1,387,200	792,200	347,270	317
3	1,622,304	136,512	32,025	43,652	1,384,704	789,704	357,430	319
4	3,807,648	0	36,190	46,886	1,908,864	1,313,864	367,830	323
5	3,269,088	0	40,852	48,692	1,789,824	1,194,824	356,205	296
6	4,173,120	288	36,421	42,098	2,142,912	1,547,912	358,065	301
7	4,017,600	0	30,219	35,749	2,198,592	1,603,592	361,370	317
8	826,272	0	28,175	33,362	2,180,928	1,585,928	334,900	294
9	29,088	0	29,848	34,279	1,868,160	1,273,160	323,950	285
10	2,215,008	0	25,872	35,196	1,655,808	1,060,808	351,415	290
11	5,523,552	0	25,207	33,208	2,130,816	1,535,816	368,380	321
12	1,846,080	0	20,958	33,943	2,184,960	1,589,960	365,535	380
13	1,617,120	0	15,883	29,743	1,916,736	1,646,736	356,205	290
14	1,555,200	0	17,318	31,598	1,884,480	1,485,480	365,700	293
15	464,832	0	26,334	33,894	2,147,136	1,599,136	347,690	287
16	30,528	0	24,927	30,534	2,164,608	1,616,608	339,470	276
17	1,508,544	0	25,102	33,173	2,348,928	1,800,928	304,915	366
18	1,679,328	0	27,111	35,490	2,127,552	1,879,552	202,860	284
19	1,383,264	0	24,850	34,048	2,162,304	2,049,304	135,370	382
20	1,202,400	0	24,563	32,816	1,885,824	1,772,824	6,240	386
21	1,667,520	0	30,919	43,064	1,844,928	1,731,928	32,915	296
22	686,016	0	31,500	42,679	1,594,368	1,481,368	174,550	299
23	188,928	0	28,644	39,732	2,018,496	1,905,496	216,465	297
24	2,715,552	0	20,559	34,006	1,488,576	1,375,576	295,330	344
25	3,313,440	0	22,218	36,379	1,863,360	1,750,360	424,750	5,774
26	2,032,128	288	24,199	34,944	1,896,000	1,500,000	456,575	14,278
27	3,952,800	0	29,848	41,811	2,697,984	2,184,984	465,940	11,918
28	1,676,160	0	27,664	40,488	2,064,576	1,839,576	490,860	10,007
29	1,768,032	0	25,949	40,103	2,158,464	1,933,464	483,975	9,414
30	30,816	0	30,352	44,317	2,147,712	2,009,712	477,620	9,287
Total	55,684,512	2,097,792	827,113	1,131,137	58,715,136	46,726,136	9,828,435	68,227

Table 36. San Luis Field Division Energy Data

(in kWh)

September 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,072,800	742,800	1,944,864	1,944,864	1,056,960	288,960
2	872,784	542,784	0	0	1,181,376	29,376
3	1,008,864	678,864	0	0	1,753,632	601,632
4	967,680	637,680	423,360	423,360	877,536	13,536
5	886,896	556,896	602,208	602,208	874,944	10,944
6	901,584	571,584	0	0	1,076,256	212,256
7	858,528	528,528	1,440	1,440	882,144	18,144
8	952,128	622,128	2,304	2,304	880,416	16,416
9	827,280	497,280	0	0	2,332,224	28,224
10	846,864	516,864	0	0	876,672	444,672
11	836,208	506,208	357,696	357,696	1,220,544	356,544
12	826,416	496,416	0	0	880,992	16,992
13	800,496	470,496	0	0	1,605,888	741,888
14	830,304	500,304	0	0	1,460,448	692,448
15	931,824	601,824	0	0	744,480	744,480
16	897,696	561,696	0	0	1,810,656	1,186,656
17	876,960	546,960	0	0	643,104	643,104
18	838,368	508,368	0	0	695,520	695,520
19	975,744	849,744	0	0	448,704	7,704
20	875,232	749,232	0	0	787,392	3,392
21	781,200	655,200	0	0	358,272	15,272
22	928,944	874,944	0	0	402,048	304,048
23	1,119,168	1,067,168	0	0	1,275,840	1,840
24	676,512	624,512	0	0	647,424	157,424
25	896,112	844,112	0	0	500,832	5,832
26	877,104	825,104	634,464	634,464	929,088	-18,912
27	1,002,528	950,528	0	0	1,281,888	2,888
28	946,080	894,080	0	0	21,024	21,024
29	632,880	580,880	0	0	840,960	2,960
30	732,960	669,960	0	0	1,415,520	-2,480
Total	26,478,144	19,673,144	3,966,336	3,966,336	29,762,784	7,242,784

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data
September 2001

(in kWh)

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	36,878	107,904	74,538	69,948	71,352	1,330,128	1,424,448	3,140,928	11,405,520
2	35,514	104,408	79,740	74,700	77,940	1,219,176	1,396,296	3,101,760	11,365,920
3	23,376	68,616	53,100	50,544	54,972	1,502,856	1,656,648	3,695,904	13,723,920
4	29,284	82,480	47,196	44,586	47,340	963,504	1,023,768	2,268,864	8,003,520
5	30,084	80,792	81,468	77,580	79,362	986,544	998,784	2,191,392	8,178,480
6	30,334	84,920	70,056	66,438	68,292	1,207,224	1,307,376	2,909,088	10,578,960
7	33,072	94,760	86,130	82,152	82,332	1,132,128	1,261,656	2,791,296	10,072,080
8	35,676	106,824	77,058	73,044	73,944	1,112,256	1,167,768	2,607,552	9,441,360
9	30,476	84,640	52,776	50,436	52,704	1,141,344	1,245,528	2,803,680	10,189,440
10	24,074	71,752	53,352	51,282	53,028	1,044,000	1,182,168	2,636,352	9,811,440
11	29,928	83,848	68,634	64,062	65,376	1,079,064	1,207,008	2,663,424	9,874,800
12	24,006	69,120	50,184	47,736	49,554	1,177,200	1,207,224	2,658,816	9,528,480
13	26,166	73,824	57,204	53,694	55,908	1,155,456	1,223,856	2,656,512	9,526,320
14	25,504	72,128	61,398	58,518	61,056	1,111,464	1,202,976	2,655,072	9,504,720
15	16,894	46,440	49,770	47,448	50,022	1,236,096	1,304,496	2,924,928	10,617,840
16	11,958	32,424	50,850	47,952	50,382	1,192,392	1,401,984	3,153,312	11,633,040
17	12,168	30,776	56,304	53,910	56,826	1,101,960	1,204,776	2,648,448	9,795,600
18	11,702	30,472	55,116	52,038	54,432	1,120,320	1,196,784	2,584,800	9,457,200
19	14,854	37,040	58,068	54,216	57,834	1,132,416	1,190,520	2,622,240	9,337,680
20	15,566	42,256	57,330	54,954	56,772	1,173,744	1,261,728	2,792,160	10,060,560
21	16,548	45,952	69,048	64,548	67,320	970,704	994,104	2,232,288	7,992,720
22	18,144	47,336	68,292	65,790	67,734	1,106,784	1,249,704	2,827,008	10,280,160
23	18,390	48,008	61,272	57,546	59,904	1,500,264	1,660,464	3,768,480	13,857,120
24	15,938	41,264	65,610	62,208	65,412	765,720	850,464	1,842,912	6,603,120
25	19,168	53,120	65,574	61,452	63,594	1,051,560	1,138,104	2,539,872	9,069,120
26	19,608	54,648	59,130	56,520	59,472	1,248,912	1,363,896	3,030,624	10,915,920
27	21,026	55,496	57,510	54,360	57,168	1,208,592	1,341,360	2,995,200	11,078,640
28	21,908	57,600	78,714	75,618	77,256	972,504	1,026,000	2,280,096	8,126,640
29	21,438	57,136	71,568	69,516	70,470	644,112	693,360	1,546,848	5,501,520
30	18,312	48,128	73,872	69,228	71,532	747,576	874,008	1,993,248	7,308,000
Total	687,994	1,914,112	1,910,862	1,812,024	1,879,290	33,336,000	36,257,256	80,563,104	292,839,840

Table 38. Southern Field Division Energy Data

(in kWh)

September 2001

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	796,880	1,557,144	1,560,000	197,708	1,145,232	2,348,160	142,296
2	246,624	17,280	1,560,000	417,564	2,431,764	2,299,680	290,577
3	512,904	1,211,256	1,560,000	416,780	2,286,960	2,537,184	266,427
4	392,728	1,163,232	1,560,000	218,680	1,258,104	2,582,592	170,436
5	408,408	1,067,904	1,560,000	228,564	1,215,096	2,262,336	158,046
6	545,776	1,174,176	1,896,000	285,684	1,255,536	2,692,416	166,488
7	595,616	1,341,144	2,144,000	245,392	1,254,924	2,265,696	145,026
8	543,984	1,441,152	1,896,000	254,352	1,276,680	2,498,784	152,124
9	358,400	35,136	1,896,000	337,092	1,830,264	2,155,488	214,494
10	552,664	1,324,080	1,920,000	226,548	1,211,880	2,431,392	137,907
11	537,824	1,402,848	1,920,000	243,684	1,279,596	2,361,792	155,022
12	510,104	1,373,256	1,920,000	232,624	1,232,136	2,293,728	141,162
13	541,576	1,356,048	1,920,000	242,256	1,205,124	2,086,848	147,000
14	535,696	1,281,384	2,256,000	258,692	1,159,080	2,366,400	135,681
15	759,528	1,479,888	2,256,000	202,244	1,149,660	1,957,056	145,866
16	592,088	685,008	2,256,000	348,124	1,639,128	2,034,528	146,832
17	618,968	1,557,288	1,920,000	210,280	1,025,196	2,382,528	159,663
18	587,440	1,417,968	1,920,000	232,960	1,077,024	2,279,040	141,015
19	520,072	1,067,040	1,920,000	243,936	1,214,328	2,416,032	141,078
20	616,672	1,422,648	1,920,000	237,804	1,101,096	2,169,792	140,385
21	534,128	1,284,984	2,424,000	179,172	887,004	2,191,104	93,891
22	697,816	1,489,896	2,424,000	228,200	950,388	2,321,376	118,797
23	940,744	1,773,720	2,424,000	308,476	1,483,428	1,984,128	123,816
24	644,392	1,507,248	1,920,000	55,216	176,820	2,159,808	0
25	646,128	1,473,192	1,920,000	189,980	880,332	2,472,768	57,540
26	549,304	1,261,512	1,920,000	316,484	1,811,340	2,159,520	222,327
27	518,448	1,409,616	1,920,000	337,260	1,674,900	2,359,680	212,898
28	339,024	608,040	1,920,000	250,516	1,223,676	2,532,000	143,052
29	180,376	0	1,920,000	203,980	1,017,372	2,525,472	129,129
30	6,552	117,576	1,920,000	383,236	1,869,948	2,330,304	213,129
Total	15,830,864	34,301,664	58,472,000	7,733,488	39,224,016	69,457,632	4,612,104